

3661



PATENT
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PAG 5

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Shinya Adachi
Serial No.: 10/075,208 Art Unit: 3661
Filed: February 14, 2002
Title: METHOD FOR TRANSMITTING LOCATION INFORMATION ON A
DIGITAL MAP, APPARATUS FOR IMPLEMENTING THE METHOD
AND TRAFFIC INFORMATION PROVISION/RECEPTION SYSTEM
Docket No.: 34409

SUPPLEMENTAL PETITION TO MAKE SPECIAL
UNDER 37 C.F.R. § 1.102(d)

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GROUP 3600

Commissioner for Patents
ATTN: TECHNICAL CENTER 3600
Washington, D.C. 20231

Sir:

Applicant hereby petitions that the above-identified application be made special under 37
C.F.R. § 1.102(d) and MPEP § 708.02, VIII, Special Examining Procedure For Certain New
Applications – Accelerated Examination.

The application has not received an examination by an Examiner.

I hereby certify that this correspondence is being deposited with
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addressed to: Commissioner for Patents, Attn: Technical Center
3600, Washington D.C. 20231 on the date indicated below.

Aaron A. Fishman
Name of Attorney for Applicant(s)
November 1, 2002 Date
Signature of Aaron A. Fishman
Signature of Attorney

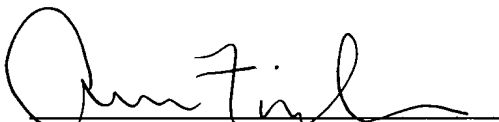
The following are submitted herewith:

- a) A copy of the originally filed Petition to Make Special Under 37 CFR § 1.102(d);
- b) A copy of the originally filed statement that a preexamination search was performed, a listing and discussion of the field of search, and a detailed discussion of the most relevant uncovered references pointing out how the claimed invention is patentable over those references;
- d) Exhibits "A" and "B" which were erroneously omitted from the Petition when it was filed; and
- c) A copy of the originally filed Information Disclosure Statement and associated form PTO-1449 (references are not included as they were submitted with originally filed Petition to Make Special).

All the claims in the above-captioned patent application are drawn to a single invention.

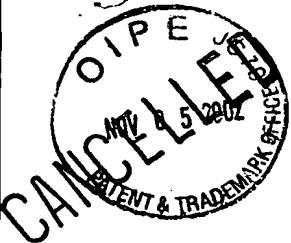
If there are any additional fees resulting from this communication not covered by the enclosed check, or if the check was omitted, please charge all uncovered fees to our Deposit Account No. 16-0820, our Order No. 34409.

Respectfully submitted,
PEARNE & GORDON LLP

By: 
Aaron A. Fishman, Reg. No. 44682

526 Superior Avenue, East
Suite 1200
Cleveland, Ohio 44114-1484
(216) 579-1700

Date: November 1, 2002



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Shinya Adachi et al.

Serial No.: 10/075,208

Filed: February 14, 2002

Title: "METHOD FOR TRANSMITTING LOCATION INFORMATION ON A DIGITAL MAP, APPARATUS FOR IMPLEMENTING THE METHOD AND TRAFFIC INFORMATION PROVISION/RECEPTION SYSTEM"

Docket No.: 34409

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PETITION TO MAKE SPECIAL UNDER 37 C.F.R. § 1.102(d)

Commissioner of Patents
Washington, D.C. 20231

Sir:

Applicant hereby petitions that the above-identified application be made special under 37 C.F.R. § 1.102(d) and MPEP § 708.02, VIII, Special Examining Procedure For Certain New Applications – Accelerated Examination. The application has not received any examination by an Examiner.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington D.C. 20231 on the date indicated below.

Suzanne B. Gagnon

Name of Attorney for Applicant(s)

August 20, 2002

Date

Signature of Attorney

The following are submitted herewith:

- a) A check for \$130 to cover the petition fee (37 CFR §1.17(h));
- b) A statement that a preexamination search was performed, a listing and discussion of the field of search, and a detailed discussion of the most relevant uncovered references pointing out how the claimed invention is patentable over those references; and
- c) An Information Disclosure Statement, associated form PTO-1449, and references cited therein.

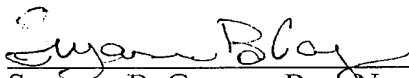
All the claims in the above-captioned patent application are drawn to a single invention.

If there are any additional fees resulting from this communication not covered by the enclosed check, or if the check was omitted, please charge all uncovered fees to our Deposit Account No. 16-0820, our Order No. 34409.

Respectfully submitted,

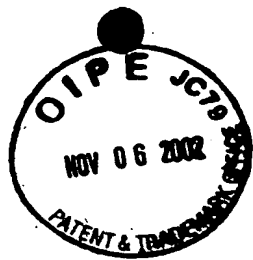
PEARNE & GORDON LLP

By:


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August 20, 2002



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicants: Shinya Adachi et al.

Serial No.: 10/075,208

Filed: February 14, 2002

Title: METHOD FOR TRANSMITTING LOCATION INFORMATION ON A
DIGITAL MAP, APPARATUS FOR IMPLEMENTING THE METHOD,
AND TRAFFIC INFORMATION PROVISION/RECEPTION SYSTEM

Docket No.: 34409

STATEMENT AND DISCUSSION REGARDING PREEXAMINATION SEARCH,
AND DISCUSSION OF MOST RELEVANT UNCOVERED REFERENCES
IN SUPPORT OF PETITION TO MAKE SPECIAL

Commissioner of Patents
Washington, D.C. 20231

Sir:

Applicant hereby submits the following statement and discussion:

PREEXAMINATION SEARCH

A preexamination search was conducted, in compliance with MPEP 708.02, VIII.

Special Examining Procedure For Certain New Applications – Accelerated Examination.

An initial search covered the following International Patent Classifications:

G 08 G - Traffic control systems (search inclusive of all subclasses),

G 09 B - Educational or demonstration appliances; appliances for teaching, or communicating with, the blind, deaf or mute; models; planetaria; globes; maps; diagrams (search inclusive of all subclasses), and

G 01 C - Measuring distances, levels, or bearings; surveying; navigation; gyroscopic instruments; photogrammetry (search inclusive of all subclasses).

This search area covered 12,004 publications.

Within this search area, the search was narrowed to publications containing various combinations of the following keywords in their abstracts: "road," "traffic," "map," "atlas," "transportation," "car," "vehicle," "position," "location," "reference," "route," "calculation," and "information." A search was also conducted within the above-mentioned search area being limited to publications in which "BOSCH" is listed as the patentee.

A list of the actual search sets is enclosed herewith as "Exhibit A". A total of 120 potentially relevant references were discovered in this search.

A further search was conducted covering the following International Patent Classifications:

G 08 G 001/0969 - Traffic control systems for road vehicles . Arrangements for giving variable traffic instructions (indicating arrangements for variable information by selection or combination of individual elements . . provided with indicators in which a mark progresses showing the time elapsed, e.g. of green phase . . . Systems involving transmission of navigation instructions to the vehicle . . . having a display in the form of a map,

G 09 B 029/00 - Maps; Plans; Charts; Diagrams, e.g. route diagram,

G 09 B 029/10 - Map spot or co-ordinate position indicators; Map-reading aids, and

G 01 C 021/00 - Navigation; Navigational instruments not provided for in preceding groups.

This second search area covered 11,133 publications.

Within this second search area, the search was narrowed using various keywords and patentees. A detailed explanation of this search is enclosed herewith as "Exhibit B."

Prior to these searches, applicant was aware of additional references, which are cited in an Information Disclosure Statement (IDS).

DISCUSSION OF MOST RELEVANT REFERENCE(S)

The party conducting the search has determined that the following uncovered references appears to be the most relevant to the subject invention: English abstract of WO 00/08616 (hereinafter "'616'"), English abstract of WO 01/18769 A1 (hereinafter "'769'"), and US 6,324,468 (hereinafter "'468'"). Thus, these references will be discussed with regard to patentability of the present claims. Each of these references is cited in the IDS.

The present invention is directed as in claim 1 to a location information transmission method for reporting on-road location on a digital map and as in claim 4 to a location information transmission apparatus for exchanging information about the on-road location on a digital map.

The method of the present invention, as set forth in independent claim 1, comprises the steps of:

(1) an information provider transmitting on-road location information by using (a) road shape data including the on-road location information consisting of a string of coordinates representing the road shape of a road section having a length that depends on the situation and (b) relative data indicating the on-road location in the road section; and

(2) a party receiving the on-road location information, performing shape matching to identify the road section on the digital map and using the relative data to identify the on-road location in the road section.

The apparatus of the present invention, as set forth in independent claim 4, comprises:

(1) the apparatus at an information provider comprises a location information converter for converting transmit on-road location information to (a) road shape data including the on-road location consisting of a string of coordinates representing the road shape of a road section having a length that depends on the situation and (b) relative data indicating the on-road location in the road section; and

(2) the apparatus at a party receiving the on-road location information comprises a shape matching section for performing shape matching by using the road shape data, identifying said road section on a digital map and identifying the on-road location in the road section by using the relative data.

The '616 abstract discloses a device for coding and decoding of a location in a traffic lane network where the information is transmitted from a transmitter to a receiver. According

to the '616 abstract, the code contains several pairs of coordinates representing the coordinates of the coded location and at least one additional point. When decoding, positions within the tolerance range for the pairs of coordinates are determined from a database, then positions on the same traffic lane are selected from the tolerance range positions, and finally the location within the tolerance range of a specific pair of coordinates from the traffic lane positions is defined as the decoded location.

The '616 abstract does not disclose a string of coordinates representing the road shape of a road section having a length that depends on the situation as set forth in claims 1 and 4. The '616 abstract also does not disclose performing shape matching to identify the road section on a digital map as recited in claim 1 or a shape matching section for performing shape matching by using the road shape data recited in claim 4. Since each of the limitations of the claim are not disclosed by the prior art, claims 1 and 4 and their corresponding dependent claims are patentable over the '616 abstract.

The '769 abstract discloses a method for transmitting road traffic data of transmitting coordinates of locations that are at least partially on traffic routes stored in a database and that contain specific characteristics of parts of the traffic route. The '769 abstract does not disclose a string of coordinates representing the road shape of a road section having a length that depends on the situation as set forth in claims 1 and 4. The '769 abstract also does not disclose performing shape matching to identify the road section on a digital map as recited in claim 1 or a shape matching section for performing shape matching by using the road shape data recited in claim 4. Since each of the limitations of the claim are not disclosed by the prior art, claims 1 and 4 and their corresponding dependent claims are patentable over the '769 abstract.

The '468 patent discloses a central traffic station that transmits route information to a vehicle. According to the '468 patent, the route information consists of turning points, which can be transmitted in the form of geographic coordinates and which are displayed on a terminal unit in the vehicle. The '468 patent does not disclose a string of coordinates representing the road shape of a road section having a length that depends on the situation as set forth in claims 1 and 4. The '468 patent also does not disclose performing shape matching to identify the road section on a digital map as recited in claim 1 or a shape matching section for performing shape matching by using the road shape data recited in claim 4. Since each of the limitations of the claim are not disclosed by the prior art, claims 1 and 4 and their corresponding dependent claims are patentable over the '468 patent.

If there are any additional fees resulting from this communication not covered by the enclosed check, or if the check was omitted, please charge all uncovered fees to our Deposit Account No. 16-0820, our Order No. 34409.

Respectfully submitted,

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Date: 8-20-2002

EXHIBIT "A"

<List of Retrieval Style>

Set No.	Items	Term	Descriptions
S01	1,729	IPC	G08G?
S02	4,768	IPC	G09B?
S03	5,575	IPC	G01C?
S04	12,004	logical expression	S01+S02+S03
S05	5,214	abstract	road
S06	4,825	abstract	traffic
S07	4,617	abstract	map
S08	38	abstract	atlas
S09	4,525	abstract	transportation
S10	7,931	abstract	car
S11	79,316	abstract	vehicle
S12	99,854	logical expression	S05+S06+S07+S08 +S09+S10+S11
S13	4,617	abstract	map
S14	38	abstract	atlas
S15	242,671	abstract	position
S16	47,604	abstract	location
S17	49,609	abstract	reference
S18	3,850	abstract	route
S19	5,432	abstract	calculation
S20	80,369	abstract	information
S21	395,367	logical expression	S13+S14+S15+S16 +S17+S18+S19+S20
S22	9	logical expression	(S01+S02+S03) * ((S05+S18) * (S07+S08) * (S10+S11)) * S15 * S16
S23	21	logical expression	(S01+S02+S03) * ((S05+S18) * (S10+S11)) * S15 * S16
S24 (List ①)	32	logical expression	(S01+S02+S03) * (S05+S18) * S15 * S16
S25	7,721	patentee	BOSCH
S26 (List ②)	58	logical expression	(S01+S02+S03) * S25
S27 (List ③)	30	logical expression	(S01+S02+S03) * S06 * S20 * S16

EXHIBIT "B"

Search Report

Subject : Patent Search For Technologies of Navigation and Location Reference

【Subject】

Patent Search For Technologies of Navigation and Location Reference

【Term】

1993.01.01 ~ Derwent week 200242

【Data Base】

Dialog Derwent World Patents Index (DWPI)

【Field】

Whole recorded fields of the Database

【Contents】

We extract the whole technology regarding AGORA Project, especially, macro-matching or map (pattern) matching of map data, which are technologies for making a plurality of map data relate to and connect with each other. Elementally technologies are extracting similar figures, checking error matching, checking error positioning, map matching, or such.

- ※ We searched within a field connected to "road", "traffic", and "map" included in the above mentioned technical field.
- ※ Other keywords were applied to the search without limiting them to the above three keywords.

【Objective Manufactures for Search】

ERTICO, NavTech, TeleAtlas, move, BOSCH, Blaupunkt, Siemens VDO
(DDG, Traffic master, Mannesmann)

- ※ We started form "patent classification" so as to search widely regarding the important manufactures written in bold strokes.
- ※ The manufactures mentioned in the parenthesis were also searched with the keywords carefully.
- ※ Other manufactures were searched with the keywords.

【Ways for Search】

We searched the technical fields along with the following retrieval style, output patent numbers of the objective sets, and investigated each reference. We also extracted references disclosing similar or relative arts to the technologies and evaluate their relevance.

【Retrieval Style】

Set	Items	Description
S1	4940	IC=' G08G-001/0969'
S2	3586	IC=' G09B-029/00'
S3	3804	IC=' G09B-029/10'
S4	8762	IC=' G01C-021/00'
S5	11133	S1+S2+S3+S4
S6	8679	S5*(ROAD OR TRAFFIC OR MAP OR ATLAS OR TRANSPORTATION OR CAR OR VEHICLE)
S7	507	(MAP OR ATLAS OR POSITION OR LOCATION) (W) MATCH?
S8	5097	(MAP OR ATLAS OR POSITION OR LOCATION) (W) ADJUST?
S9	2960	(MAP OR ATLAS OR POSITION OR LOCATION) (W) CORRECT?
S10	164	ROUTE (W) CALCULATION OR ROUTING (W) CALUCURATION OR PATH (W) CALCULATION
S11	260	S6*(S7+S8+S9+S10)
S12	3	FAULT (W) MATCH? OR FAULT (W) ADJUST?
S13	129	ERROR (W) MATCH? OR ERROR (W) ADJUST?
S14	10597	ERROR (W) CORRECT?
S15	17	S6*(S12+S13+S14)

S16	17328	RELATIVE (W) POSITION?
S17	39	(SIMILAR+ANALOGOUS+ANALOGICUS+HOMOTHETIC) (W) FIGURE
S18	81	S6*(S16+S17)
S19	37	LOCATION (W) REFERENC?
S20	1119	S6*(POINT+LINE?+ROAD?)*(CHARACTER?+SHAPE?+GEOMETRY+TOPOLOGY +TYPE+FEATURE+DIRECTION)
S21	0	S6*(ILOC OR GOODLANE OR PIVOT (W) POINT)
S22	754	(POSITION? OR LOCATION?)*S20
S23	1074	S11+S15+S18+S19+S22
S24	4104686	PC=JP*NC=001
S25	392	S23 NOT S24
S26	218	PC=(EP+WO)*S25
S27	0	PA=ERTICO
S28	4	PA='NAVTEC'+PA='NAVTEC INC'+PA='NAVTEC INC (NAVTEC-N)'+PA='NAVTECH' +PA='NAVTECH CO LTD'+PA='NAVTECH CO LTD (NAVTEC-N)'
S29	1	PA='TELEATLAS'+PA='TELEATLAS INT BV'+PA='TELEATLAS INT BV (TELE-N)'
S30	70	PA=MOVE
S31	32265	PA=BOSCH
S32	875	PA=BLAUPUNKT
S33	72701	PA=SIEMENS
S34	102433	S27+S28+S29+S30+S31+S32+S33
S35	14	PA=DDG
S36	0	PA=TRAFFIC MASTER
S37	9151	PA=MANNESMANN
S38	9164	S35+S36+S37
S39	144	S6*S34
S40	7	S6*S38*(S7+S8+S9+S10+S12+S13+S14+S16+S17+S22)
S41	144	S39 NOT S24
S42	7	S40 NOT S24
S43	500	S25+S41+S42
S44	299	PC=(EP+WO)*S43

※ We output and investigated the references in the underlined set.

[Result of Search]

As a result of the search, we extracted 134 patent families in total. If a patent publication is written in German or French, we referred to a corresponding publication written in Japanese or English, which is belonging to the family member of the parent publication in order to investigate its details.

Please refer to the attached list of extracted patents.

In the list, relevance is expressed as follows:

A	◎	: Similar
B	○	: Highly relevant
C	△+	: Low relevant
D	△-	: Lower relevant but having same background

↑

In attached FD, expressed as above.

Related Art for Navigation and Location Reference

AN	Title	Abstract	PA	IN	Patent No	Kind	Date	Relevance	Applicat No	Kind
1	Method and structure for operating a navigation system	WO 200217268 A1	SIEMENS AG	KLEIN B&ZEH	WO 200217268 DE 10041800	A1	20020228 20020321	Δ-	WO 2001DE2917 DE 1041800	A
2	Displaying route, especially for vehicle	WO 200214788 A1	BOSCH GMBH	REISLER T&H	WO 200214788 DE 10039235	A1	20020221 20020228	O	WO 2001DE2713 DE 1039235	A
3	Retrieval method for digital map section	WO 200216874 A1	SIEMENS AG	DELLING T&H	WO 200216874	A1	20020228	O	WO 2000DE2907	A
4	Television programme broadcast system	WO 200150763 A1	THOMSON MULTIMEDIA	CARBONNEL	WO 200150763 FR 2809837	A1	20010712 20011207	Δ-	WO 2000FR3740 FR 2809837	A
					WO 200150763 A1	A1	20011207		WO 2000DE2907	A
					WO 200150763 A1	A1	20011207		WO 2000DE2907	A
					WO 200150763 A1	A1	20011207		WO 2000DE2907	A
					WO 200150763 A1	A1	20011207		WO 2000DE2907	A
5	Coding, decoding and/or transmission of	WO 200217268 A1	SIEMENS AG	KLEIN B&ZEH	WO 200217268 DE 10041800	A1	20020228 20020321	Δ-	WO 2001DE2917 DE 1041800	A
6	Information and control system for vehicle	WO 200216874 A1	SIEMENS AG	DELLING T&H	WO 200216874	A1	20020228	O	WO 2000DE2907	A
7	Digital road map for automobile navigation	WO 200216874 A1	SIEMENS AG	DELLING T&H	WO 200216874	A1	20020228	O	WO 2000DE2907	A
8	Selecting map information for navigation	WO 200216874 A1	SIEMENS AG	DELLING T&H	WO 200216874	A1	20020228	O	WO 2000DE2907	A
9	Method and navigation instrument for de	WO 200216874 A1	SIEMENS AG	DELLING T&H	WO 200216874	A1	20020228	O	WO 2000DE2907	A
10	Navigation system for motor vehicles, set	WO 200216874 A1	SIEMENS AG	DELLING T&H	WO 200216874	A1	20020228	O	WO 2000DE2907	A
11	Navigation device for satellite-based veh	WO 200216874 A1	SIEMENS AG	DELLING T&H	WO 200216874	A1	20020228	O	WO 2000DE2907	A
12	Navigation information display method	WO 200216874 A1	SIEMENS AG	DELLING T&H	WO 200216874	A1	20020228	O	WO 2000DE2907	A
13	Navigation system for vehicles, has neu	WO 200216874 A1	SIEMENS AG	DELLING T&H	WO 200216874	A1	20020228	O	WO 2000DE2907	A
14	Data output method for automobile driv	WO 200216874 A1	SIEMENS AG	DELLING T&H	WO 200216874	A1	20020228	O	WO 2000DE2907	A
15	Map information changing device for mot	WO 200216874 A1	SIEMENS AG	DELLING T&H	WO 200216874	A1	20020228	O	WO 2000DE2907	A
16	Intersection display method for map displ	WO 200216874 A1	SIEMENS AG	DELLING T&H	WO 200216874	A1	20020228	O	WO 2000DE2907	A
17	Operating navigation system involves tra	WO 200216874 A1	SIEMENS AG	DELLING T&H	WO 200216874	A1	20020228	O	WO 2000DE2907	A
18	Operating navigation system involves tra	WO 200216874 A1	SIEMENS AG	DELLING T&H	WO 200216874	A1	20020228	O	WO 2000DE2907	A
19	Encoding and decoding objects in road net	WO 200216874 A1	SIEMENS AG	DELLING T&H	WO 200216874	A1	20020228	O	WO 2000DE2907	A

Related Art for Navigation and Location Reference

AN	Title	Abstract	PA	IN	Patent No.	Kind	Date	Relevance	Applicat. No.	Kind
20	Computer-assisted processing of structure	WO 200156752 A	THIEMENS AG	FEITEN W&R	WO 200156752 DE 10004409	A2 A1	20010809 20010906	Δ	WO 2001DE412 DE 1004409	A A
21	Road network related data providing method	EP 1111336 A1	NOV NAVIGATION	BECHTOLSH	EP 1111336 JP 200127978	A1 A	20010827 20010824	Δ	EP 2000310804 JP 2000387632	A A
22	Data storing method in geographic database	EP 1098168 A2	NOV NAVIGATION	BOYLAN A M	EP 1098168 JP 2001201358	A2 A	20010509 20010727	○	EP 2000302881 JP 2000326025	A A
23	Encoding and decoding road network objects, inv	DE 19942522 A1	NO BOSCH GMBH	ROBERT (B	DE 19942522 WO 200118768 EP 1214697	A1 A1 A1	20010308 20010315 20020619	⊙	DE 1042522 WO 2000DE3056 EP 2000963961 WO 2000DE3056	A A A A
24	Image processing apparatus for navigating	EP 1074960 A1	NOV PIONEER CORP	KASHIWAZAK	EP 1074960 JP 2001034899	A1 A	20010207 20010209	Δ	EP 2000115939 JP 99211273	A A
25	Navigation information transmission proc	DE 19930796 A1	NO BOSCH GMBH	FDRAEGER G&H	DE 19930796 AU 200066829	A1 A	20010111 20010122		DE 1030796 AU 200066829	A A
26	Adapter card for navigation device has int	DE 19934837 A1	NO BOSCH GMBH	FRYCHLAK S&	DE 19934837 WO 200108086 EP 116173	A1 A1 A1	20010125 20010201 20010718	Δ	DE 1034837 WO 2000DE2416 EP 2000960312 WO 2000DE2416	A A A A
27	Vehicle navigation system in which the sca	DE 19926367 A1	NO BOSCH GMBH	FDUCKECK R&	DE 19926367 WO 200077474 AU 200064244 EP 1192418	A1 A1 A1 A1	20001214 20001221 20010102 20020403	Δ	DE 1026367 WO 2000DE1814 AU 200064244 EP 2000951206 WO 2000DE1814	A A A A A
28	Route guidance device for motor vehicle	WO 200050845 A1	N XANAVI INFO	SATO H&	WO 200050845 JP 2000241182 EP 1162432	A1 A A1	20000831 20000908 20011212	○	WO 2000JP1111 JP 9947945 EP 2000905356 WO 2000JP1111	A A A A
29	User adapted position dependent informati	WO 200049530 A1	N TELIA AB	(THE CHRISTIANSS	WO 200049530 SE 9902487 SE 514052 SE 9902417 SE 9902110 EP 1196865	A1 A C2 A A A1	20000824 20000818 20001218 20000818 20000818 20020417	○	WO 2000SE306 SE 992487 SE 992418 SE 992417 SE 992110 EP 2000908202 WO 2000SE306	A A A A A A A
30	Determining the position of a vehicle inv	DE 19915212 A1	NO BOSCH GMBH	PHONKOMP DA	DE 19915212 EP 1043600 US 6345229	A1 A1 B1	20001005 20001011 20020205	○	DE 1015212 EP 2000105755 US 2000541936	A A A

Related Art for Navigation and Location Reference

AN	Title	Abstract	PA	IN	Patent No	Kind	Date	Relevance	Applicat No	Kind
31	Obtaining realistic road view based on digital map	WO 20063842 A1	SIEMENS AG	RITTER D&	WO 20063842 DE 20022813	A1 U1	20001026 20020516	Δ	WO 2000DE1075 DE 2000U202813 WO 2000DE1075	A U A
32	Method of predicting the course of a vehicle	WO 200033151 A1	BOSCH GMBH	FLICHTENBERG	WO 200033151 DE 19855400 EP 1135274	A1 A1 A1	20000608 20000615 20010926	Δ	WO 99DE3219 DE 1055400 EP 99957863 WO 99DE3219 KR 2001706779	A A A A A
33	A mobile body map matching apparatus for a vehicle	EP 1022578 A2	NOVIMATSUSHITA E	SHIMADA T&	EP 1022578 JP 2000213948	A2 A	20000726 20000804	O	EP 2000300411 JP 9912533	A A
34	Stereoscopic map-display and navigation for a vehicle	EP 1024467 A2	NOVIMATSUSHITA E	ENDO Y&HIRANO	EP 1024467 JP 2000221876 KR 2000062510	A2 A A	20000802 20000811 20010129	Δ	EP 2000101242 JP 9922616 KR 20004455	A A A
35	Vehicle navigation method uses routing algorithm	WO 200038130 A1	BOSCH GMBH	PFESSING B&	WO 200038130 DE 19859080 EP 1141910	A1 G1 A1	20000629 20000831 20011010	Δ	WO 99DE3962 DE 1059080 EP 99964431 WO 99DE3962	A A A A
36	In-vehicle driver information navigation system	WO 200022593 A1	SIEMENS AUTOMOTIVE	ASHER H&BRONKHORST	WO 200022593	A1	20000420	Δ	WO 99US3614	A
37	Navigation system for vehicle, aircraft, and spacecraft	DE 19847730 A1	BOSCH GMBH	FGAERTNER U&	DE 19847730 WO 200023766 EP 1046019	A1 A1 A1	20000420 20000427 20001025	Δ	DE 1047730 WO 99DE2205 EP 99947223 WO 99DE2205	A A A A
38	Data compression method for compressing geographic data	EP 987823 A2	NOVIMATSUSHITA E	FRIEDERICH	EP 987823 JP 2000101441 US 20010043745 US 6383149	A2 A A1 B1	20000322 20000407 20011122 20020521	Δ	EP 99306714 JP 98377973 US 98153996 US 98153996	A A A A
39	Aircraft based integrated GPS-inertial navigation system	WO 200007134 A1	MILITON SYSTEMS	HUDDLE J R&	WO 200007134 AU 9951184 EP 1019862	A1 A A1	20000221 20000719	Δ	WO 99US16495 AU 9951184 EP 99935777 WO 99US16495 US 98124819	A A A A A
40	Method to determine route from street network	EP 979987 A2	BOSCH GMBH	FFABIAN T&	EP 979987 DE 19836485 US 6230099	A2 A1 B1	20000216 20000217 20010508	Δ	EP 99111285 DE 1036485 US 99354559	A A A

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					JP 200002552	A	20000107	Δ	JP 98171526	A
					JP 2000018960	A	20000121		JP 98184248	A
					AU 9938486	A	20000105		AU 9938486	A
					EP 1096228	A1	20010502		EP 9921160	A
					CN 1305583	A	20010725		WO 99JP2570	A
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					AU 745164	B	20020314		KR 2000714359	A
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42	Storage of digital street map for navigation	DE 19829801 A The SIEMENS AG	ANDERLIK B&D	A1	DE 19829801	A1	20000105		US 2000711455	A
					WO 200002011	A2	20000113	Δ	DE 1029801	A
43	Agricultural vehicle with arrangement for	EP 970595 A1 NOVECLAAS SELBST	QUINCKE G&	A1	EP 970595	A1	20000112		EP 99112635	A
					DE 19830858	A1	20000113		DE 1030858	A
					BR 9902661	A	20000314		BR 992661	A
					US 20010018638	A1	20010830		US 99349562	A
					US 6345231	B2	20020205	Δ	US 99349562	A
44	Network accessible door to door direction	WO 9960339 A1 NOV ZIP2 CORP	ZHO E K S&	A1	WO 9960339	A1	19991125	Δ	WO 99US11117	A
					AU 9941927	A	19991206		AU 9941927	A
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					US 20020002467	A1	20020103		WO 99US11117	A
					WO 9951940	A1	19991014	©	US 9882311	A
45	Navigation system e.g. for determining cur	WO 9951940 A1 NOV MAGELLAN DIS	KARUNANIDH	A	AU 9933794	A	19991025		WO 99US7316	A
					US 6108603	A	20000822		AU 9933794	A
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					EP 1070229	A1	20010124		WO 99US7316	A
					WO 9956264	A1	19991104	O	NO 20005009	A
46	Generating method of location reference in	WO 9956264 A1 NOV TELE ATLAS	DORENBECK	A1	EP 1020832	A1	20000719		EP 99915235	A
					EP 1078346	A1	20010228		WO 99EP2820	A
					EP 1078346	B1	20020410		EP 99920790	A
					DE 69901242	E	20020516		WO 99EP2820	A
									DE 601242	A
47	Generating method of location reference in	WO 9956264 A1 NOV TELE ATLAS	DORENBECK	A1	EP 1020832	A1	20000719		EP 99920790	A
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47	Position determination method for vehicle	DE 19819473 A The SIEMENS AG		SCHUPFNER	DE 19818473	A1	19991104		DE 1018473	A
					WO 9956081	A2	19991104		WO 99DE1145	A
					DE 19818473	C2	20000330		DE 1018473	A
					EP 1082585	A2	20010314		EP 99926253	A
48	Data apparatus for a motor vehicle for a	WO 9947893 A1 NOV BOSCH GMBH		ROBERLAENDER	WO 9947893	A1	19990923	△	WO 99DE1145	A
					DE 19811707	A1	19990930		DE 1011707	A
					EP 1064521	A1	20010103		EP 99939851	A
					EP 1064521	B1	20020619		WO 99DE1145	A
49	Method for issuing traffic information to	WO 9946562 A1 NOV BOSCH GMBH		FRISKEN	WO 9946562	A1	19990916		WO 99DE632	A
					DE 19810173	A1	19991007		DE 1010173	A
					EP 1062481	A1	20011227		EP 99917777	A
					JP 2002506219	W	20020226	△	WO 99DE632	A
50	Geographic data base for navigational app	EP 943895 A2 NOV NAVIGATION		TASHBY R A	EP 943895	A2	19990922		JP 2000535898	A
					JP 11345247	A	19991214	○	EP 99301931	A
					US 6038559	A	20000314		JP 98377974	A
					WO 9939161 A The SIEMENS AG	A1	19990805		US 9839583	A
51	On-board navigation device for automobile	WO 9939161 A The SIEMENS AG		SCHUPFNER	WO 9939161	A1	19990805		WO 99DE153	A
					DE 19803662	A1	19990819		DE 1003662	A
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					EP 979387	A1	20000216		EP 99906064	A
52	Navigation method, especially for motor ve	EP 933745 A2 NOV NOKIA MOBILE		HAKALA H	EP 933745	A2	19990804		WO 99DE153	A
					DE 19803659	A1	19990805		EP 99100281	A
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53	Navigation unit for motor vehicle	DE 19748127 A1 NOV BOSCH GMBH		FKREFT P	DE 19748127	A1	19990506		US 99238380	A
					WO 9924787	A2	19990520		DE 1048127	A
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					JP 2001522986	W	20011120	◎	EP 98965566	A
54	Navigation unit for motor vehicle	JP 2001522986			JP 2001522986	W	20011120	◎	WO 98DE3078	A
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					EP 1025423	B1	20011121		WO 98DE2891 EP 98955356	A A
					JP 2001521142	W	20011106	Δ	WO 98DE2891 JP 2000517253	A A
					DE 59802765	G	20020221		DE 502765 EP 98955356	A A
									WO 98DE2891	A
55	Vehicle information system for guiding veh	WO 9909374 A2 NOV	SIEMENS CORP	H&BRI	WO 9909374 AU 9889159 EP 1005627	A2 A A2	19990225 19990308 20000607		WO 98US17237 AU 9889159 EP 98941003	A A A
					JP 2002506197	W	20020226	Δ	WO 98US17237	A
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					EP 899704	A2	19990303		EP 98114149	A
					DE 19737256	A1	19990304		DE 1037256	A
56	Automobile guidance system using onboard r	EP 899704 A2 NOV	BOSCH GMBH	RHESSING B&	US 20010001847 US 6334089	A1 B2	20010524 20011225		US 98141171 US 98141171	A A
					EP 875877 A The n	A2	19981104		EP 98107642	A
					JP 10307037	A	19981117	○	JP 97114818	A
					WO 9845724	A1	19981015		WO 98DE981	A
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57	Satellite location device for road vehicle	WO 9845724 A The	BOSCH GMBH	RBODE F&TANN	EP 972209	A1	20000119		EP 98929200	A
					JP 2001519027	W	20011016	○	WO 98DE981	A
									JP 98542248	A
					EP 863381 A The a	A2	19980909		WO 98DE981	A
					JP 10253352	A	19980925		EP 98104046	A
58	Navigation apparatus e.g. for vehicle, aer				JP 10253373	A	19980925	○	JP 9753613	A
					US 6115668	A	20000905		JP 9753614	A
					WO 9836244 A The	A2	19980820		US 9835911	A
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					JP 2000514195	W	20001024	○	EP 97955002	A
59	Method for calibrating differential scale				US 6230100	B1	20010508		WO 97US23048	A
					DE 19753170 A The	A1	19980618		WO 97US23048	A
					WO 9827530	A1	19980625	○	JP 98535714	A
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60	Transmitting recommended route in traffic	DE 19753170 A The	MANNESMANN	AVIEWEG S&	DE 19753170 WO 9827530 EP 944896	A1 A1 A1	19980618 19980625 19990929		DE 1053170 WO 97DE2821 EP 97955609	A A A
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62	Vehicle navigation system using GPS data	WO 9825107 A The	ETAK INC (EIMATHIS D L)	A	WO 9825107	A2	19980611		WO 97US19400	A
					AU 9868629	A	19980629		AU 9868629	A
					US 5948043	A	19990907		US 96747161	A
					EP 1012537	A2	20000628		EP 97954901	A
					JP 2001509883	W	20010724	O	WO 97US19400	A
63	Navigation device with preparation of road	WO 9823918 A A na	TOYOTA JIDOS	OKADA A&	WO 9823918	A1	19980604		WO 97JP4295	A
					EP 940654	A1	19990908		EP 97912552	A
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64	Map database for navigation system - managed	EP 848232 A The i	XANAVI INFOR	NOMURA T&	EP 848232	A2	19980617		US 99276499	A
					JP 10171347	A	19980626	Δ	EP 97310076	A
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					EP 844462	A2	19980527		KR 9771598	A
					CA 2221339	A	19980522		EP 97309419	A
65	More accurate position determining method	EP 844462 A The m	ZEXEL CORP	OSHIKAWA H&	EP 844462	A2	19980527		CA 2221339	A
					JP 10246642	A	19980914	Δ	JP 97321522	A
					US 6253154	B1	20010626		US 96754484	A
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66	Vehicle positioning system using satellite	DE 19645209 A The	BOSCH GMBH	KREFT P&	WO 9820359	A1	19980514		WO 97DE1945	A
					EP 935760	A1	19990818		EP 97942782	A
					CZ 9901526	A3	19991215		WO 97DE1945	A
					JP 2001503519	W	20010313	O	WO 97DE1945	A
					KR 2000053026	A	20000825		JP 98520930	A
67	Location coding device for traffic network transmi	DE 19835051 A1 NC	BOSCH GMBH	ROBERT (B	DE 19835051	A1	20000210		WO 97DE1433	A
					WO 200003816	A1	20000217	©	EP 99934485	A
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					EP 840269	A1	19980506		EP 97308690	A
					JP 10160488	A	19980619	Δ	JP 97298891	A
68	Method of providing manoeuvre indication	EP 840269 A The m	ZEXEL CORP	DESAI S&TAN	CA 2217753	A	19980430		CA 2217753	A
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					EP 932134	A1	19990728		EP 97940328	A
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					JP 10514494	X	19990907		WO 97JP3185	A
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					US 6178377	B1	20010123	Δ	WO 97JP3185	A
70	Method of automatically calibrating display	DE 19637616 A The	BOSCH GMBH	KREFT P&	KR 2001029539	A	20010406		US 99269024	A
					DE 19637616	A1	19980319		KR 99702394	A
					WO 9812905	A1	19980326		DE 1037616	A
					EP 925483	A1	19990630		WO 97DE1296	A
					US 6029496	A	20000229		EP 97931639	A
					JP 2001500617	W	20010116	Δ-	WO 97DE1296	A
71	Cartographic data reception and display	WO 9805019 A The	SIEMENS AG	SCHOENBAUER	WO 9805019	A1	19980205	Δ	US 99269142	A
					EP 914644	A1	19990512		WO 97DE1296	A
					EP 914644	B1	20011121		JP 98514127	A
					DE 59706052	G	20020221		WO 97DE1377	A
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72	Navigation module for vehicle - has unit	DE 19614940 A The	BOSCH GMBH	FSCHREINER	DE 19614940	A1	19971023		WO 97DE1377	A
					WO 9739310	A1	19971023		DE 1014940	A
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73	Vehicle navigation system with map database	WO 9724577 A The	MAGELLAN DIS	CROVLE S R	WO 9724577	A2	19970710		WO 97DE258	A
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					JP 2000506604	W	20000530	O	US 95580150	A
					EP 870173	B1	20011121		WO 96US20849	A
74	Navigation device for vehicle - has data	EP 779498 A The	AISIN AW CO	HIYOKAWA T	EP 779498	A2	19970618		JP 97524600	A
					JP 9152349	A	19970610	Δ	EP 96945804	A
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					US 6333702	B1	20011225		WO 96US20849	A

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75	Navigation apparatus for vehicle finding	EP 773525 A The a	AISIN AW CO	HAYASHI S&	EP 773525	A1	19970514		EP 96117347	A
					JP 9189560	A	19970722		JP 96296317	A
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					US 6035253	A	20000307		US 96735597	A
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					JP 3180664	B2	20010625	O	JP 2000174596	A
					JP 2001324338	A	20011122		JP 96296317	A
					JP 2001304884	A	20011031	O	JP 200161428	A
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					JP 3262316	B2	20020304	O	JP 200161429	A
76	Map indicator for producing route guidance	EP 766217 A The m	AISIN AW CO	HAYASHI S&	EP 766217	A2	19970402		EP 96115646	A
					JP 9152831	A	19970610		JP 96259946	A
					JP 9159481	A	19970620		JP 96264920	A
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					KR 97002791	A	19970128		KR 9642254	A
					US 5884218	A	19990316		US 96724245	A
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					KR 235239	B1	19991215		JP 200043323	A
77	Vehicle navigation appts. that performs r	EP 751376 A The a	AISIN AW CO	HAYASHI K&	EP 751376	A2	19970102		EP 96110401	A
					JP 9014984	A	19970117	Δ-	JP 95161679	A
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					JP 3262690	B2	20020304		JP 95146535	A
78	Map displaying automotive navigation syste	EP 749103 A The a	MAISUSHITA	BUKIDA H&	EP 749103	A1	19961218		EP 96109327	A
					JP 8339163	A	19961224		JP 95146535	A
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79	Updating digital street maps for guiding	DE 19525291 C The	MANNESMANN	HEIMANN	DE 19525291	C1	19961219		DE 1025291	A
					EP 752692	A1	19970108		EP 96250137	A
					US 5948042	A	19990907	Δ+	US 96676086	A
					EP 752692	B1	20000816		EP 96250137	A
					DE 59605751	G	20000921		DE 505751	A
					ES 2148675	T3	20001016		EP 96250137	A
80	Current position calculating system for v	EP 747668 A The s	XANAVI	INFO SATO H&	EP 747668	A2	19961211		EP 96109026	A
					JP 8334364	A	19961217	©	JP 95143567	A
					KR 97002266	A	19970124		KR 9620475	A
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					KR 218213	B1	19990901		KR 9620475	A
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81	In vehicle road data information and route	WO 9635199 A The	BOSCH GMBH	FGOSS S&KELL	WO 9635199	A1	19961107		WO 96DE698	A
					DE 19516476	A1	19961107		DE 1016476	A
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					JP 10503026	W	19980317	Δ	JP 96532914	A
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82	In vehicle road traffic and navigation sys	WO 9635198 A The	BOSCH GMBH	FGOSS S&KELL	WO 9635198	A1	19961107		WO 96DE691	A
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					JP 10503025	W	19980317	Δ	JP 96532912	A
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83	System for vehicle odometer correction for	EP 738878 A The s	XANAVI	INFO SATO H&	EP 738878	A2	19961023		EP 96106195	A
					JP 8292040	A	19961105	○	JP 9597197	A
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					KR 275189	B	20001215		KR 9612100	A
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84	Current position calculating system for cd	EP 738877 A The s	XANAVI	INFO SATO H&	EP 738877	A3	19971210		EP 96105567	A
					US 5999954	A	19990504		US 96629853	A
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					FR 2732773	A1	19961011		FR 954241	A
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85	Error correction device for aircraft magne	EP 737866 A The d	EUROCOPTER	PASSOUS E C&	EP 737866	A1	19961016		EP 96400438	A
					FR 2732773	A1	19961011		FR 954241	A
					US 5882335	A	19971028	Δ-	US 96631703	A
					DE 19531822	A1	19960411		DE 1031822	A
					WO 9611382	A1	19960418	Δ-	WO 95DE1416	A
					AU 9536970	A	19960502		AU 9536970	A
86	Destination guidance of vehicle on travel	DE 19531822 A The	MANNESMANN	ALBRECHT U&	DE 19531822	A1	19960411		DE 1031822	A
					WO 9611382	A1	19960418	Δ-	WO 95DE1416	A
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87	Determining directional change during veh	WO 9601462 A The	SIEMENS AG	HERMANS H	WO 9601462 EP 715749	A1 A1	19960118 19960612		WO 951B509 EP 95921094	A A
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88	Route selector and monitor for motor vehicle	DE 4415993 A The	BOSCH GMBH	FKREFT P&	DE 4415993 WO 9530881 CZ 9603243 EP 759151	A1 A1 A3 A1	19951109 19951116 19970212 19970226		DE 4415993 WO 95DE536 CZ 963243 EP 95915800	A A A A
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					JP 10500208	W	19980106	◎	JP 95528584	A
					US 6002981	A	19991214		WO 95DE536 WO 95DE536 US 96737214	A A A
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					DE 59508940	G	20010208		WO 95DE536 DE 508940 EP 95915800	A A A
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89	Location and navigation appts. with satel	DE 4332945 A The	BOSCH GMBH	FKREFT P&	DE 4332945 WO 9509348 EP 721570	A1 A1 A1	19950330 19950406 19960717		DE 4332945 WO 94DE1036 EP 94925354	A A A
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90	Map-matching in navigation route guidance	WO 9504325 A The MOTOROLA INC SEYMOUR L			WO 9504325	A1	19950209		WO 94US7197	A
					EP 664040	A1	19950726		EP 94931731	A
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					JP 8502591	W	19960319	◎	EP 94931731	A
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					DE 69423090	E	20000330		JP 9505822	A
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91	Locating mobile stations in digital teleph	SE 500769 B An ad TELIA AB (TELESSON B&			SE 500769	B	19940829		WO 94US7197	A
					EP 631453	A2	19941228		SE 932140	A
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					DE 69429472	E	20020131		EP 94850095	A
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92	Determination of current vehicle position	WO 9416504 A The ZEXEL CORP KAO W&			WO 9416504	A1	19940721		WO 94US88	A
					AU 9459903	A	19940815		AU 9459903	A
					US 5374933	A	19941220		US 93950	A
					EP 678228	A1	19951025		EP 94906016	A
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					AU 683240	B	19971106		AU 9459903	A
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93	Navigation appts mounted on road vehicle	EP 607654 A The c PIONEER ELECTRIC CO DAGAWA S&			EP 607654	A2	19940727		EP 93308303	A
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94	Map matching appts for vehicle navigation	EP 593256 A The n PIONEER ELECTRIC CO KAWAHARA S&			EP 593256	A1	19940420		DE 606523	A
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95	Navigation system for motor vehicle - uses	GB 2271420 A Dist	FORD WERKE	M	GB 2271420	A	19940413		GB 9221107	A
					WO 9408250	A1	19940414	Δ	WO 9362071	A
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96	Traffic radio receiver for optimum route	DE 4208277 A The	BOSCH GMBH	P&B	DE 4208277	A1	19930916		DE 4208277	A
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					JP 6507747	W	19940901	Δ	WO 93DE145	A
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97	Velocity coefficient correction for vehic	EP 544403 A The	MATSUSHITA	A&S	EP 544403	A1	19930602		EP 92309692	A
					CA 2081185	A	19930426		CA 2081185	A
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98	Location detection appts. with overspeed	EP 543543 A The	SUMITOMO ELE	MATSUZAKI	EP 543543	A1	19930526		EP 92309692	A
					US 5337245	A	19940809		DE 614098	A
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					JP 3227741	B2	20011112	Δ	EP 92310198	A
99	High accuracy sensor system for on-vehicle	WO 9309509 A The	MOTOROLA INC	BARNEA	WO 9309509	A1	19930513		US 92970075	A
					EP 570581	A1	19931124		JP 91302176	A
					JP 6504131	W	19940512	Δ	WO 92US7870	A
					EP 570581	A4	19940810		JP 93508387	A
					US 5434788	A	19950718		EP 93909338	A
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100	Navigation system with relative and absolute	WO 9305587 A The ETAK INC (EIMATHIS D L)			WO 9305587	A1	19930318		WO 92US6442	A
					AU 9224926	A	19930405		AU 9224926	A
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					EP 601037	B1	20000517		JP 93505183	A
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101	Global positioning system for vehicle nav	EP 527558 A The PIONEER ELECTRONIC CORP			JP 3273439	B2	20020408	©	EP 92918607	A
					EP 527558	A1	19930217		WO 92US6442	A
					US 5276451	A	19940104		JP 93505183	A
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					DE 69206073	E	19951221		DE 606073	A
					JP 2981025	B2	19991122	△	EP 92306331	A
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102	Town map representation for motorist naviga	DE 4039887 A The BOSCH GMBH			DE 4039887	A	19920617		WO 92DE212	A
					WO 9210824	A1	19920625		DE 4039887	A
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103	Land vehicle navigation apparatus - disp	WO 9204683 A The MOTOROLA INC			JP 5507521	W	19930428	△	DE 508334	A
									EP 91920244	A
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104	Land vehicle navigation apparatus - disp	WO 9204683 A The MOTOROLA INC			US 5243528	A	19930907		WO 91920244	A
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105	On-board receiver for automotive navigation	EP 478438 A The n	BABS	J (B	EP 478438	A	19920401		EP 91402534	A
					FR 2667423	A1	19920403		FR 9011993	A
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					JP 4305684	A	19921028	O	JP 91249607	A
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106	Geographical interactive automated mapping	WO 9202891 A The	GEORE	SEARCH	DE 69115417	E	19960125		DE 615417	A
					ES 2080924	T3	19960216		EP 91402534	A
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					AU 9187389	A	19920302		AU 9187389	A
					US 5214757	A	19930525	O	WO 91US5629	A
107	Vehicle position determination method	EP 471405 A Vehicle	PHILIPS	GLOBERMANS H	EP 471405	A	19920219		EP 91202018	A
					NL 9001810	A	19920302		NL 901810	A
					BR 9103444	A	19920505		BR 913444	A
					US 5307278	A	19940426		US 91742787	A
					EP 471405	B1	19961120		EP 91202018	A
108	Navigation apparatus for driver, etc.	WO 9102943 A Upon	TSUYUKI I.	TSUYUKI I.	DE 69123199	E	19970102		DE 623199	A
					KR 185581	B1	19990415		EP 91202018	A
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					WO 9102943	A	19910307		JP 91226454	A
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109	Navigation apparatus for driver, etc.	WO 9102943 A Upon	TSUYUKI I.	TSUYUKI I.	EP 489915	A1	19920617		EP 90912375	A
					AU 644808	B	19931223		WO 90JP1064	A
					US 5351059	A	19940927	Δ	AU 9061679	A
					EP 489915	A4	19930512		WO 90JP1064	A
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110	Navigation apparatus for driver, etc.	WO 9102943 A Upon	TSUYUKI I.	TSUYUKI I.	DE 69025192	E	19960314		EP 90912375	A
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					KR 9701143	B1	19970129		WO 90JP1064	A
					EP 489915	B2	20000209		KR 92700400	A
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					NL 8900056	A	19900801		US 90463696	A
					US 5161886	A	19921110	Δ-	US 91798264	A
					EP 378271	B1	19960403		EP 90200044	A
					DE 69026288	E	19960509		DE 626288	A
110	Adaptive in-vehicle route guidance system	EP 372840 A. The i	SUMITOMO ELECTRIC	Y&IKEDA	EP 372840	A	19900613		EP 89312522	A
					US 5031104	A	19910709		US 89442782	A
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					EP 372840	B1	19951102		EP 89312522	A
					DE 68924697	E	19951207		DE 624697	A
111	Vehicle navigation system - directs course	WO 9001679 A. Rout	NAVA A&N INC	CO	WO 9001679	A	19900222	○	EP 88312449	A
					EP 380673	A	19900808		JP 88209053	A
					US 5067082	A	19911119		JP 88209053	A
					EP 380673	A4	19920909		JP 88209053	A
					EP 355232	A	19900228		JP 88209053	A
112	Road drawing system for navigation apparatus	EP 355232 A. The r	NAVA A&N INC	CO	EP 355232	A	19900228		JP 88209053	A
					JP 10318773	A	19981204		JP 88209053	A
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					JP 10318776	A	19981204		JP 88209053	A
113	Vehicle navigation appts. using dead reckoning	EP 349977 A. The v	MAZDA MOTOR	KAKIHARA M	EP 349977	A	19900110		EP 89112192	A
					US 5046011	A	19910903	◎	US 89374262	A
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114	Vehicle navigation system - corrects distance	WO 8906344 A The	AISIIN AW CO	TOYAMA Y&A	WO 8906344	A	19890713		WO 88JP1304	A
					EP 352332	A	19900131		EP 89900887	A
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115	Navigation system for motor vehicle e.g.	WO 8906342 A A cu	AISIIN AW CO	NANBA A&YOH	WO 8906342	A	19890713		WO 88JP1302	A
					EP 349652	A	19900110		EP 89900885	A
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					EP 349652	A4	19911211		EP 89900885	A
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					JP 8054252	A	19960227	Δ-	EP 89900885	A
					DE 3855162	G	19960502		JP 87333045	A
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116	Display unit of navigation system - has da	WO 8906341 A An o	AISIIN AW CO	MOROTO S&M	WO 8906341	A	19890713		WO 88JP1299	A
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117	Helmet mounted navigational HD - has sma	EP 315742 A A nav	DEUT AEROSP	BENEDIKTER	EP 315742	A	19890517		EP 8813653	A
					DE 3737972	A	19890524		DE 3737972	A
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					DE 3737972	C	19920227			
118	Travel path display appts. for automobile	EP 302736 A The d	HONDA GIKEN	I IHOSHI A&	EP 302736	A	19890208		EP 88307240	A
					US 4963864	A	19901016		US 88224995	A
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119	Location system for moving object e.g. rol	EP 296016 A A mov	COMMISSARIA	LERAT B&	EP 296016	A	19881221		EP 88401368	A
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					US 4840445	A	19890620		US 88204674	A
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120	Travel route determination for land vehic	EP 323485 A Proce	BOSCH GMBH	FNEUKIRCHNE	WO 8809974	A	19881215		WO 88DE329	A
					EP 323485	A	19890712		EP 88904495	A
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121	Automatic course control system for land	EP 289803 A The c	BOSCH GMBH	RNEUKIRCHNE	EP 289803	A	19881109		EP 88105617	A
					DE 3715007	A	19881117		DE 3715007	A
					US 5040122	A	19910813	O	US 88190239	A
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122	Route information system for commercial	EP 331675 A Navig	BOSCH GMBH	FZECHNALL W	DE 3700552	A	19880721		DE 3700552	A
					EP 331675	A	19880913		EP 87907305	A
					JP 2501959	W	19900628	A-	JP 87506735	A
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123	Position correction for road vehicle navig	DE 3642986 A The	BOSCH GMBH	FANEKL R&PH	DE 3775410	G	19920130		US 89392926	A
					US 5146219	A	19920908		US 91637060	A
					DE 3642986	A	19880707		DE 3642986	A
					EP 276366	A	19880803	A	EP 87113077	A
124	Travel path display for running body e.g.	EP 272077 A A dist	HONDA GIKEN	IHOUSHI AK	US 4893246	A	19900109	O	US 87130680	A
					CA 1296789	C	19920303		EP 87311002	A
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125	Vehicle location detection system for pred	EP 270911 A Dista	SUMI TOMO	ELMITSOH K&SH	EP 270911	A	19880615		EP 87117315	A
					WO 8808961	A	19881117		WO 87JP452	A
					US 4807127	A	19890221	©	US 87123362	A
					EP 314806	A	19890510		EP 88903963	A
126	Satellite own position measuring method f	EP 264756 A Sate	HITACHI LTD	KURIHARA NA	US 4999783	A	19910312		US 88295206	A
					EP 314806	A4	19910821		EP 88903963	A
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127	Navigation device for vehicle using small	EP 261404 A A mag	SIEMENS AG	WUTTKE G&	EP 264756	A	19880427		EP 87114844	A
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					EP 264756	B1	19940803		EP 87114844	A
					DE 3750323	G	19940908		DE 3750323	A
128	Navigation device for vehicle using small	EP 261404 A A mag	SIEMENS AG	WUTTKE G&	KR 9611782	B1	19960830		EP 87114844	A
					EP 261404	A	19880330		KR 8711251	A
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129	Navigation device for vehicle using small	EP 261404 A A mag	SIEMENS AG	WUTTKE G&	DE 3768023	G	19910321			
					ES 2019912	B	19910716			

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125	Moving body path display e.g. for vehicles	EP 242050 A The th	HONDA GIKEN	ICHIKAWA A	EP 242050	A	19871021		EP 87302089	A
					US 4963865	A	19901016	◎	US 8725848	A
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					DE 3775447	G	19920206			
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129	Navigation system for vehicle - includes	DE 3519276 A A di	BOSCH GMBH	KRONIG WARAN	DE 3519276	A	19861204		DE 3519276	A
					WO 8607143	A	19861204		WO 86DE150	A
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					JP 62503050	W	19871203	△	JP 86502094	A
					EP 262122	A	19880406		EP 86902320	A
130	Navigation system for automatic vehicle -	GB 2169725 B The	GENERAL ELECTRIC	REEVE J P	GB 2169725	A	19860716		GB 86703	A
					WO 8604430	A	19860731		WO 86GB21	A
					EP 207989	A	19870114		EP 86900797	A
					JP 62501383	W	19870604	△	JP 86500623	A
					GB 2169725	B	19880706		US 86816207	A
131	Electronic traffic guidance nad informati	EP 169954 A The s	DE VILLEROCH	VILLEROCH	US 4847769	A	19890711		EP 86900797	A
					CA 1269740	A	19900529		WO 86GB21	A
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					DE 3686213	G	19920903		KR 86700636	A
					KR 9311722	B1	19931218		EP 84401584	A
132	Mobile vehicle navigation system - stores	EP 69965 A The X.	NIPPONDENSO	AKUTSU K&H	EP 169954	A	19860205		WO 85FR202	A
					WO 8601023	A	19860213		JP 85503299	A
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Related Art for Navigation and Location Reference

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Shinya Adachi et al.

Serial No.: 10/075,208

Filing Date: February 14, 2002

Title: "METHOD FOR TRANSMITTING LOCATION INFORMATION ON A DIGITAL MAP, APPARATUS FOR IMPLEMENTING THE METHOD, AND TRAFFIC INFORMATION PROVISION/RECEPTION SYSTEM"

Docket No.: 34409

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with Rule 56, applicants are aware of the publications listed in the enclosed copy of Patent Office Form 1449. A copy of each of the publications is enclosed herewith.

Respectfully submitted,

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington D.C. 20231 on the date indicated below.

Suzanne B. Gagnon

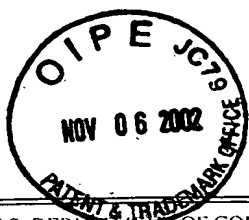
Name of Attorney for Applicant(s)

August 20, 2002

Date

Suzanne B. Gagnon

Signature of Attorney



Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. 34409	SERIAL NO. 10/075,208
	APPLICANT: Shinya Adachi et al.	
	FILING DATE: February 14, 2002	GROUP ART UNIT:

U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	A	6,324,468 B1	11/2001	Meis et al.			
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J	WO 00/08616	02/2000	PCT			English Abstract
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

P	
Q	
R	

Examiner:	Date Considered
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*Examiner: Initial if reference considered, regardless of whether citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.